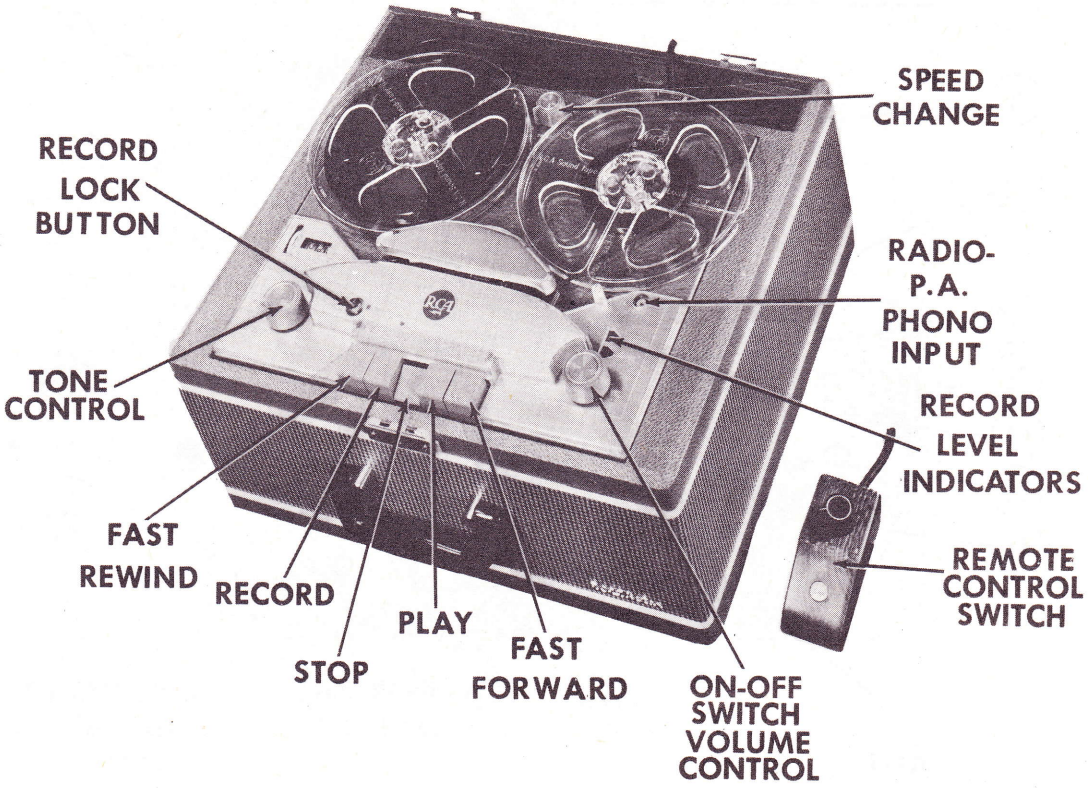


Figure 1

GENERAL INFORMATION

The RCA Models SRT-403 and SRT-403Q feature fingertip operation for Fast Forward, Playback, Stop, Record, and Fast Reverse. These recorders are designed to record and playback two tracks of material on standard width recording tape. Any reel size up to 7" can be used. Two neon recording indicators simplify the recording level setting. New recordings can be made on previously recorded tape since the erase head is automatically positioned when the "Record" button is pressed, or the same recording may be played back indefinitely. Recordings can be made from a radio, television receiver, or phonograph, in addition to those made directly from the microphone. Recordings can be played back through the self-contained speakers, or external speakers may be used by connecting to the "Ext. Spkr." jacks.

The RCA Models SRT-403 and SRT-403Q have two tape speeds, 3 3/4" and 7 1/2" per second. Using both tracks of the tape the recording time is as follows:

Size	3 3/4" Speed	7 1/2" Speed
5" reel (600 ft.)	1 hour	1/2 hour
7" reel (1200 ft.)	2 hours	1 hour

These units are designed to operate on 60 cycle, 115 volts, AC supply only. Before connecting to your line supply, be absolutely certain that it agrees with the above specifications.

Manufactured by:

Engineering Products Dept.
Radio Corp. Of America
Camden, N. J.

This material compiled and published by

HOWARD W. SAMS & CO., INC., INDIANAPOLIS, INDIANA

RCA VICTOR
MODEL SRT-403 (MI-15917)

RCA VICTOR
MODEL SRT-403 (MI-15917)

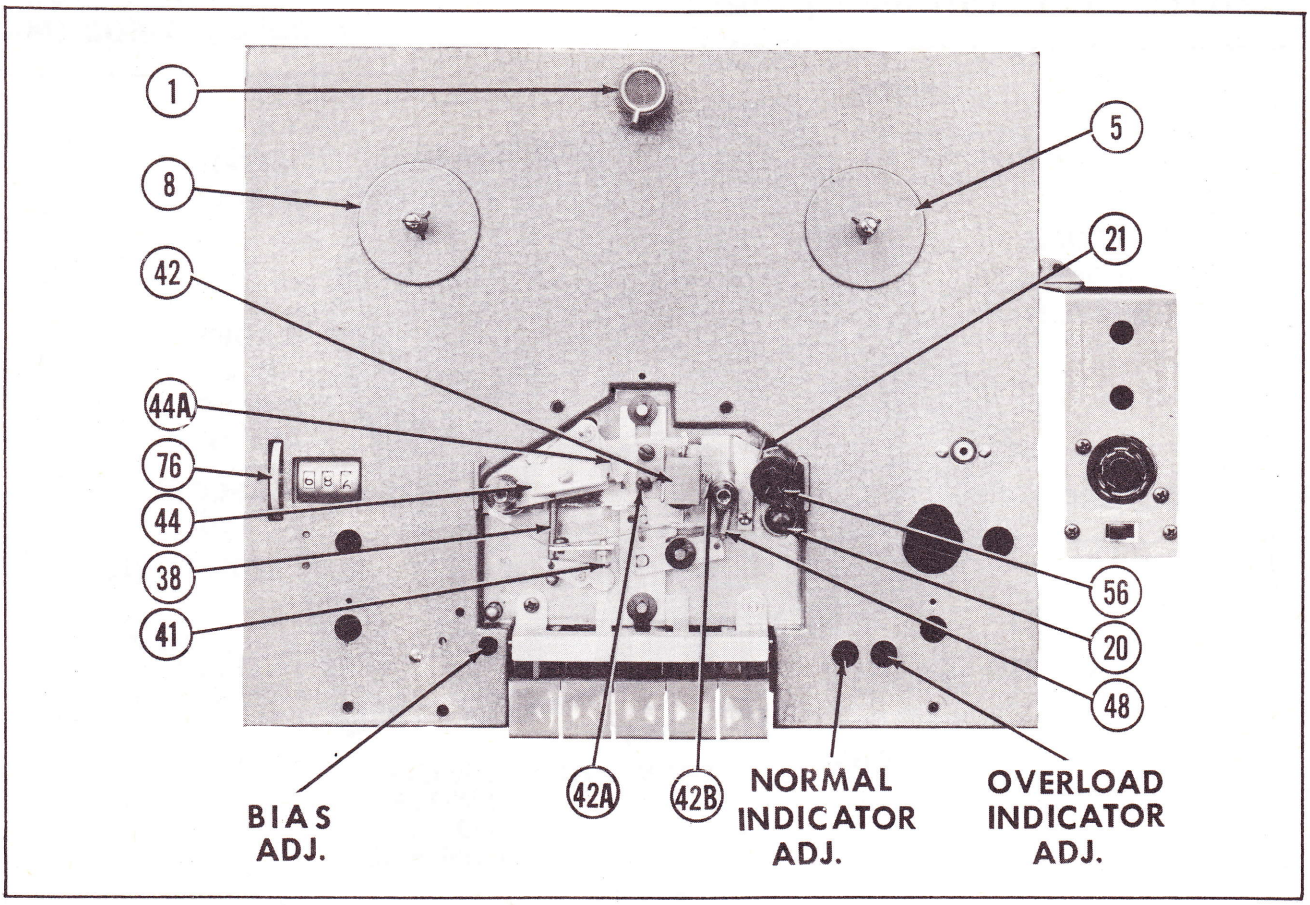


Figure 2

SPECIFICATIONS

Size: 10" x 15 7/8" x 14 1/4"
Weight: 35 lbs.
Speed: 3 3/4 and 7 1/2 IPS
Reel Capacity: Up to 7" Reel
Rewind Time: 1200' (7" Reel) in 2 3/4 min.
External Speaker Impedance: 3.2 ohms
Speakers: Three
Tube Complement: 5Y3, 12AX7, 12AY7, 6AQ5 (2)
Oscillator Frequency: 60KC

OPERATING INSTRUCTIONS

Preparation For Operation-

1. Remove the AC power cord, 7" reel of tape, empty reel and the microphone from the storage compartment.

2. Depress the "Stop" button.

3. Plug the AC cord into a convenient wall receptacle of the proper rating.

4. Set speed change knob to 7.50 or 3.75 as desired.

5. Place "Remote Control" switch in "Off" position.

CAUTION: Do not turn speed change knob unless "Stop" button is depressed.

When the Forward or Reverse button are depressed, the Record and Play buttons are locked so that they cannot be pressed down, with the possibility of spilling tape. The buttons should always be pressed down firmly until they latch and the Stop button must be depressed before changing functions or speeds of the recorder.

IMPORTANT: Always depress the Stop button when the machine is not in use.

Speed Change Knob-

The arrow on the speed change knob should point at 7.50 or 3.75 according to the speed desired. These recorders have two speeds, 7 1/2" and 3 3/4" per second. The arrow pointing at 7.50 means the unit will operate at the fast speed or 7 1/2" per second.

CAUTION: Turning the speed change knob while the unit is operating will not change the speed. The Stop button must be depressed before the speed can be changed.

Threading The Tape-

1. Place a full reel of tape on the left (supply) spindle, making certain one of the reel slots catch the protrusions of the pan. Unwind about 14" of tape from the supply reel.

2. Insert free section of tape into the tape slot.

3. Insert free end of tape into one of the three slots in the hub of the right (take-up) reel and while holding the tape in place give the reel two or three turns until the tape is secured.

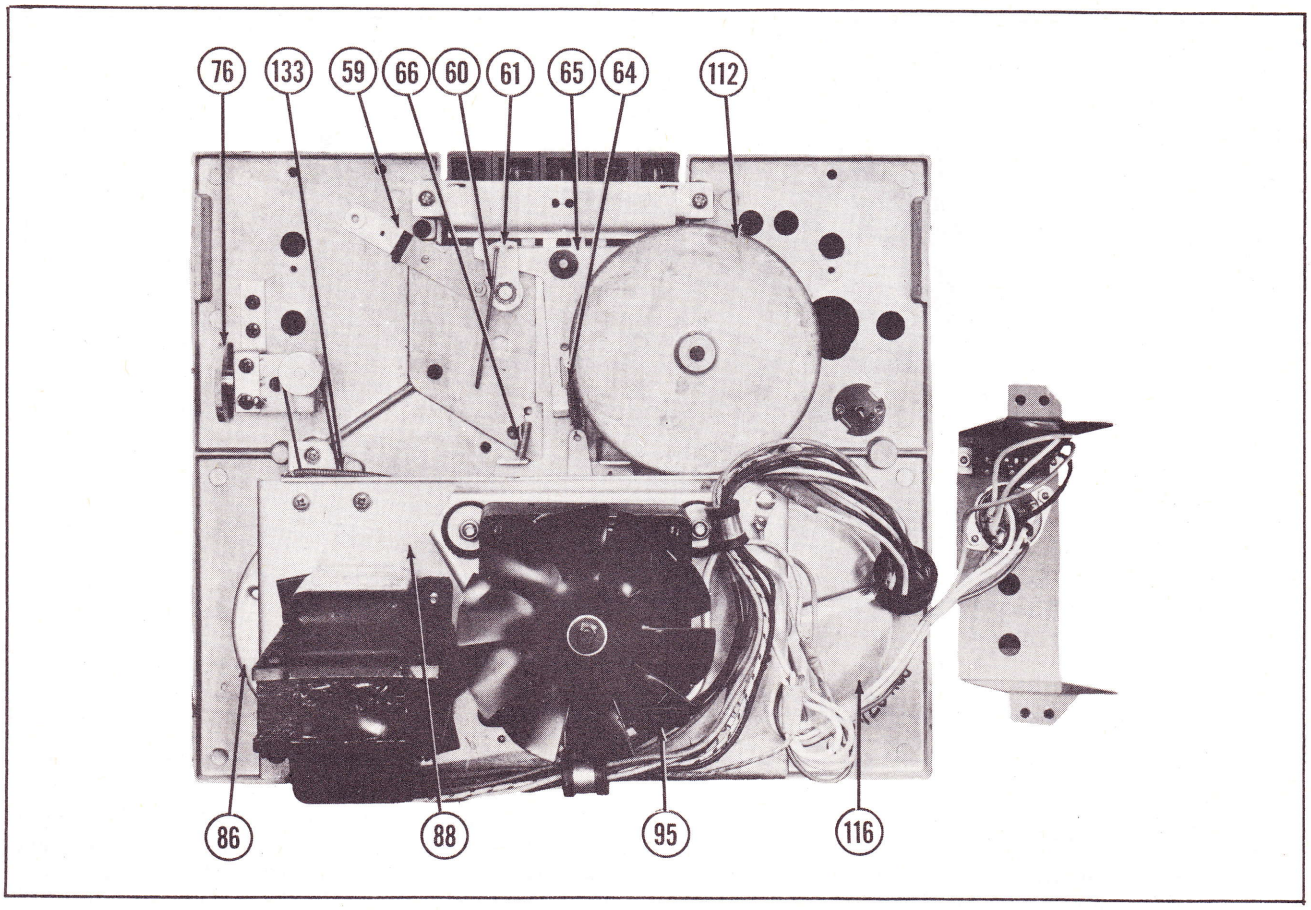


Figure 3

4. The dull side of the tape should always face away from the operator (rear of unit).

To Record From Microphone-

1. Turn the On-Off Volume control to the right until a click is heard and allow about 30 seconds for the unit to warm up. The pilot light located above the Stop Button will glow when the unit is turned on.

2. Insert the microphone plug into the "Microphone" input.

3. Move the record lock button (9) downward with the left hand. This releases the safety lock which prevents accidental erasure.

4. Depress the "Record" button with the right hand (while holding record lock button (9) with the left hand) until it latches.

5. Adjust the "Volume" control until the "Normal" indicator just flashes, while speaking into the microphone. When the "Volume" control is advanced too far the "Overload" indicator will flash and the recording will be distorted. To prevent overload, lower the "Volume" control to a point where the "Overload" indicator will not flash.

6. The "Tone" control does not operate during recording. When recording from radio, set the radio "Tone" control for maximum treble.

To Record From External Radio, TV, Or Phonograph-

1. Insert the phonograph pickup plug into the "Radio"-P. A. -"Phono" jack.

2. For radio or TV recording, connect patch cord, Part No. 204215 to the voice coil of the radio or TV receiver speaker by means of the alligator clips. Plug into "Radio-P. A. -Phono" jack.

3. Proceed as described under "To Record From Microphone".

NOTE: Remove patch cord after recording is completed.

To Use Second Track-

1. Depress the "Stop" button when all the tape has wound onto the take-up reel.

2. Remove reel containing tape and place on left-hand supply reel.

3. Place empty reel on right-hand take-up pan.

4. Thread tape as previously described.

To Play Recordings-

1. Turn on unit with "Volume" control knob.

2. Thread tape as described under "Threading The Tape".

3. Set the speed change knob (1) to the speed at which the recording was made.

4. Depress "Play" button until it latches.

5. Adjust "Volume" and "Tone" controls to desired listening level.

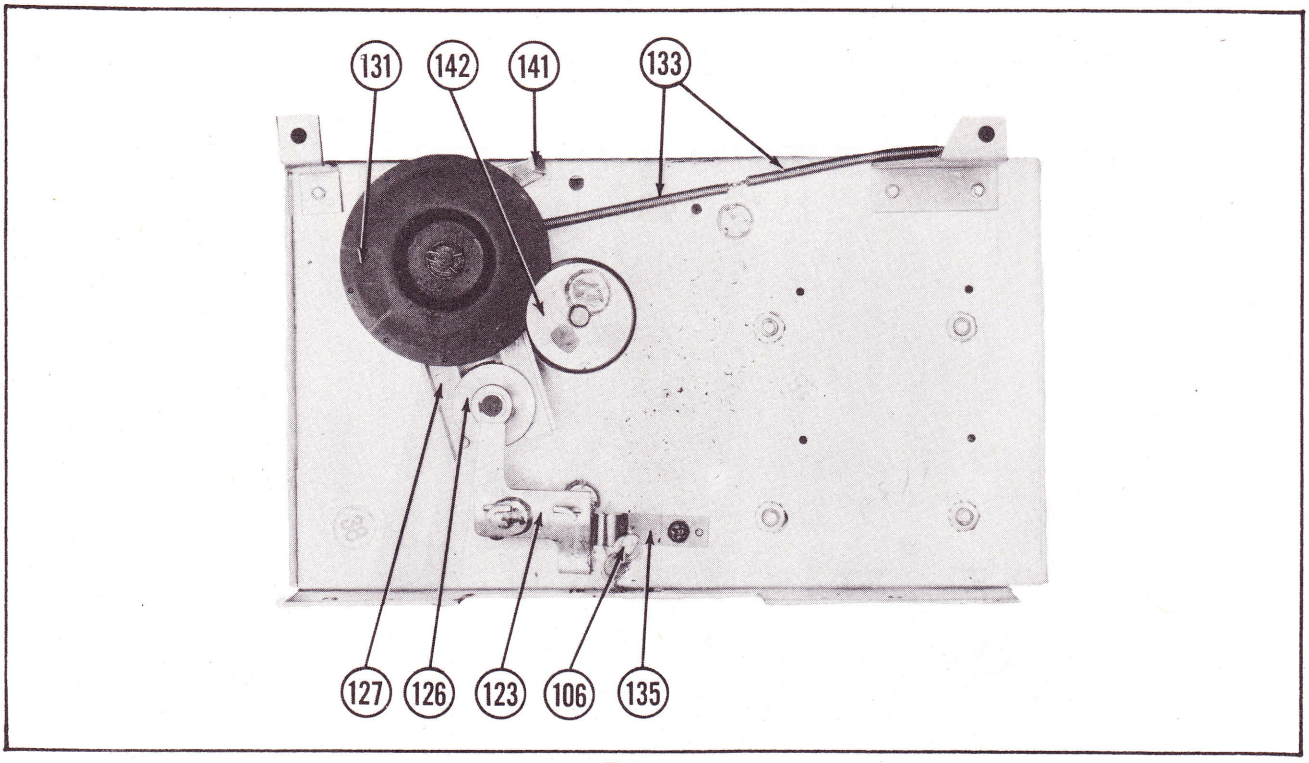


Figure 4

High-Speed Forward Or Reverse-

When it is desirable to play a certain portion of the tape over again it is not necessary to rewind the entire tape. By depressing the "Forward" or "Reverse" button the tape will advance (or reverse) at a rapid speed.

Several minutes of normal recording can be skipped in a few seconds by the "Reverse" and "Forward" buttons.

Tape Timer-

The tape timer provides complete selectivity and immediate location of any part of recorded tape. By turning the indicator to zero when beginning each reel, the numerals on the indicator will act as a ready reference to any desired portion of the recorded tape. Permanent records of this may be kept on the tape box enabling you to pin-point your favorite selections.

To Edit And Splice Tape-

NOTE: Since it is impossible to edit and splice one track without affecting the other, recordings which are to be edited should be limited to one track only.

1. The tape may be edited by cutting out unwanted portions, or by joining selections into another sequence. Announcements may be inserted between selections, etc. Unused sections of tape can be spliced together for re-use.

2. For best results, cut tape at a slight diagonal, join ends together with splicing tape on the glossy side and trim off any excessive width.

Erasing Recorded Material-

When the record button is depressed, the erase head is automatically positioned, erasing any previous recording before a new one is made. You may erase material no longer needed, without recording, by depressing the "Record" button and turning the "Volume" control knob to the minimum volume position or extreme counter-clockwise position just before the recorder shuts off. One track is erased at a time. To erase the second track, reverse the reels and repeat the above operation.

To Use As A Public Address System-

Insert the microphone plug into the "Microphone" input jack. Plug in an extension speaker or speakers if desired and depress the "Record" button. Set the "Volume" and "Tone" controls to the desired listening level. A recording can be made at the same time with a tape placed on the unit in the normal manner.

CAUTION: When using the public address feature, see that the microphone is as far away from the speakers as possible, to prevent "feedback" squeal.

Remote Control Operation-

A socket and switch are provided to allow remote operation up to a distance of 15 feet, either recording or playback. This is accomplished by means of a remote control cable. Connect attachment cord as follows:

1. Insert remote control cable plug into remote socket. Be sure remote control switch on end of cable is in "Off" position.

2. With control switch on the recorder in "Off" position start the unit in the regular manner and set "Volume" control to the proper level.

3. Place control switch on the set to "On" position. Tape will come to a stop.

The recorder can now be operated (start and stop) by means of the remote cable switch. When starting the recorder by means of the remote control, the switch should be rotated to the "Motor" position and then after a slight pause rotated to the "Record-Play" position. To stop recording or playback, rotate the control switch directly to "Off" position, pausing slightly at the "Motor" position.

ADJUSTMENTS

Disassembly Instructions-

1. Remove two screws located in storage compartment.

2. Remove push-on type volume and tone control knobs.

3. Remove two screws located under volume and tone control knobs, remove front escutcheon.

4. Remove two hex head screws located under front escutcheon.

5. Remove the wood screws holding remote control panel to bottom of case.

6. Lift unit out of case, removing leads from speakers before removing unit completely.

Record-Playback Head Adjustment-
(See Exploded View)-

To adjust the record-play-head (42) for maximum frequency response, make the following adjustment:

1. Remove the rear escutcheon (12).

2. Properly thread an alignment tape or a good recorded tape on the machine.

3. Set the controls as described under "To Play Recordings".

4. To adjust for maximum output of all frequencies, loosen bracket mounting screw (42A) and rotate bracket slightly until maximum output is obtained. Tighten screws (42A) after adjustment.

To adjust for maximum high-frequency response on early production grip the vertical portion of the record/playback head mounting bracket with a pair of long-nosed pliers. Rock the mounting bracket and record head from side to side slightly until the maximum high frequencies are obtained. Bend the bracket with the pliers to obtain a permanent set at this position.

To adjust for maximum high-frequency response on late production (see figure 2) turn adjusting screw (42B) as required until the maximum high-frequency output is obtained.

Pressure Pad Adjustment-
(See Exploded View)-

1. Remove the front escutcheon (13).

2. Depress the "Play" button. Do not turn recorder on.

3. Use a pencil type postal scale and check the amount of pressure necessary to just pull the pad away from the tape. The test should be made on the end of the pressure pad mounting spring (49). Adjust the pressure pad for 1 3/4 oz. $\pm$ 1/4 oz.

Hum Control Adjustment-

It is very important for recording purposes that the hum control be correctly adjusted. Hum that is present during recording will be amplified during playback.

To set the hum control turn the unit "On" and allow the tubes to warm up, advance the volume control to approximately mid-position and adjust the hum control (R3) for minimum hum.

(a)The record head pressure pad is adjusted by the locked adjustment screw (41).

(b)The guide post pressure pad (40) is adjusted by bending the pressure pad spring. It must be adjusted for minimum pressure against the tape.

4. After the adjustments are made depress the "Stop" button and replace the front escutcheon.

Erase Head Adjustment-

1. With tape properly threaded, turn recorder on and depress the "Record" button. Allow tape to run for a few seconds then turn recorder off, but leave "Recorder" button depressed.

2. With the escutcheons removed check the erase head (44) to see if it is parallel with the tape.

3. Check to see if the top edge of the tape coincides with the top end of the diagonal slot in the erase head (junction of long diagonal slot and short vertical slot). To adjust level of tape, loosen set screw (33), see exploded view, and rotate tape guide post (34) to move tape up or down. Tighten set screw (33).

4. After this adjustment has been made, check to see if the tape moves forward approximately 1/64" when the "Record" button is depressed. If not, loosen the forward adjustment screw (44A), see Figure 2 and turn the screw in or out as required to obtain this 1/64" movement. Tighten the lock nut.

Brake Shoe Adjustment-

1. In order to adjust the brake shoes, the complete mechanism must be removed from the carrying case and the speakers disconnected.

2. With all push buttons in the up position the brake shoes (68) should clear the drums by approximately 1/8".

3. Depress the "Stop" button while observing the brake shoes. Both brake shoes must contact the drums at the same time and with equal pressure.

4. The adjustment is accomplished by bending the spring arm (67).

Adjustment For Slow Take-Up Reel-

There are some instances where the spring drive belt (21), see Figures No. 2 and No. 6A, stretches after a period of time. When this happens, the take-up

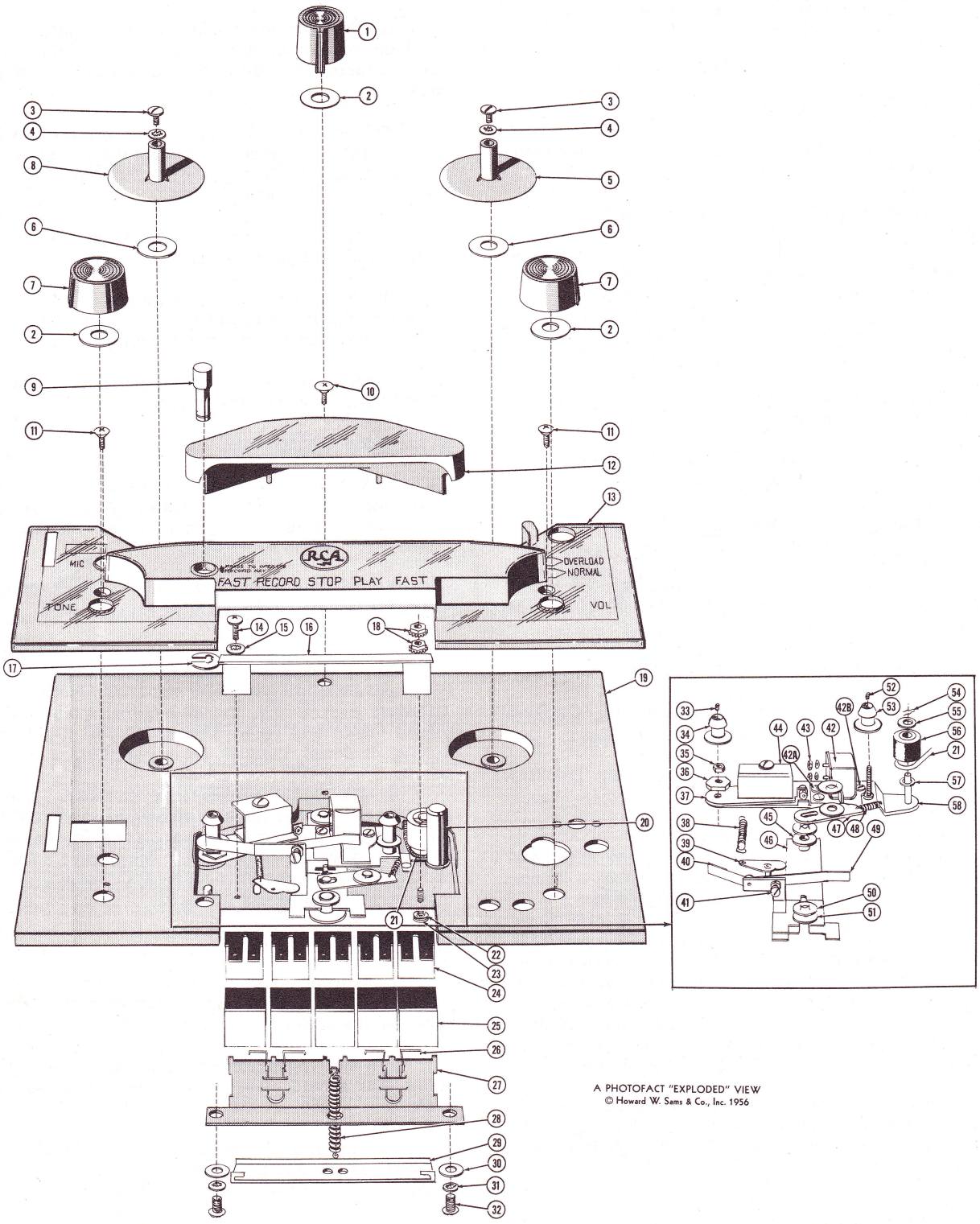


Figure 5A. Exploded View of Parts Above Baseplate.

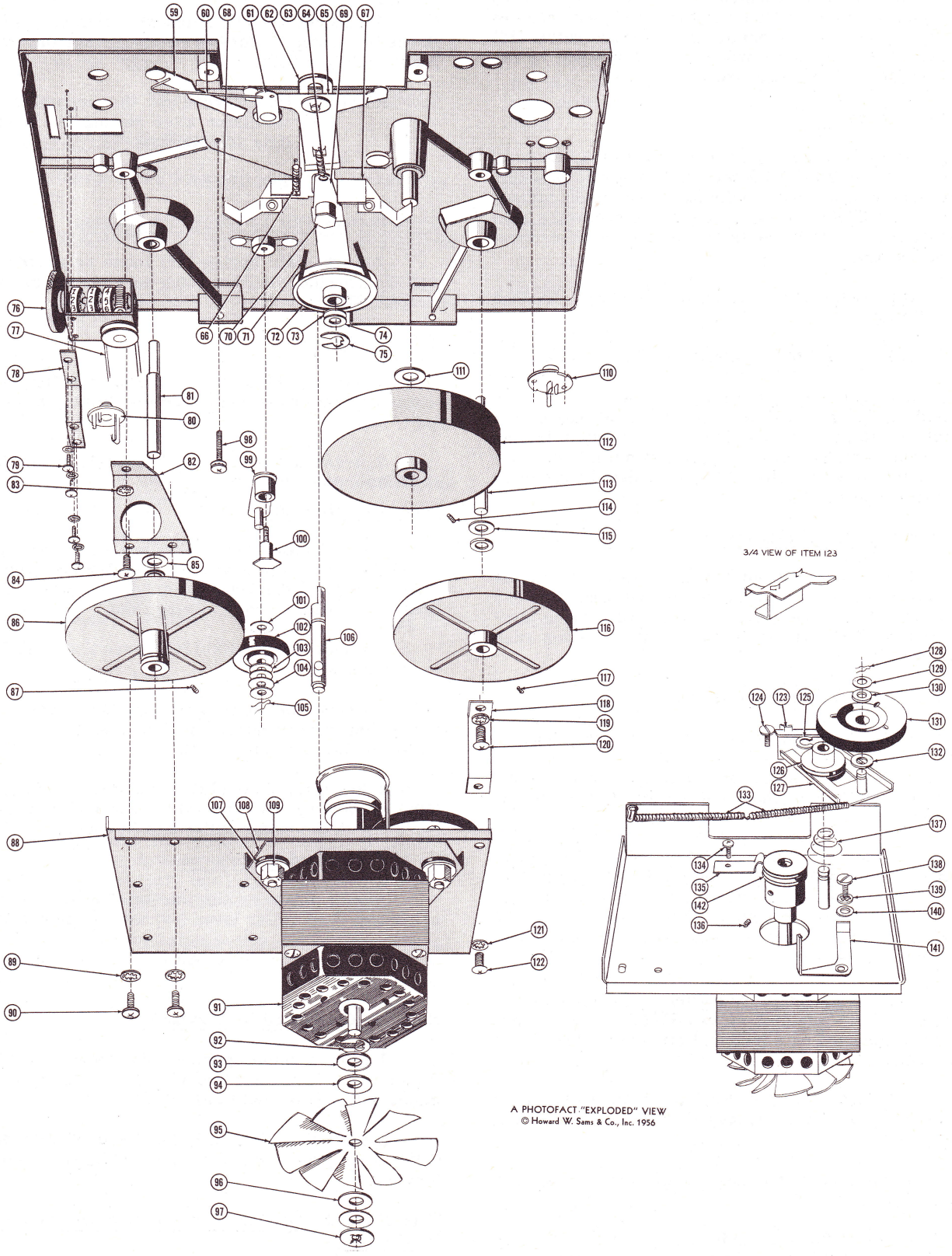


Figure 5B. Exploded View of Parts Below Baseplate.

torque will be insufficient to wind tape properly onto the takeup reel. In this case, the belt should be replaced as follows:

Remove rear escutcheon (12). Remove take-up reel pan (5). With the "Stop" button depressed, remove old spring drive belt from around pressure roller (56) and lift belt clear of recorder. Install new belt by reversing the above procedure.

Bias Adjustment-

Turn the recorder on and depress the "Record" button; use no tape. To determine if the bias is within satisfactory limits without dismantling the unit, merely connect a VTVM from the top lug of the recording head to chassis. If 75 to 100 volts are present no adjustment is necessary.

If the readings are outside of this range, proceed as follows:

1. Try new 12AY7, 12AX7, 6AQ5 and 5Y3.

2. If still not within range, remove the chassis shield and connect a low capacity VTVM from test point "A" to chassis. Use low scale. Adjust trimmer M8 for maximum reading. Adjust trimmer M7 to obtain a reading to 2.25 volts. This provides the optimum in performance.

Neon Record Level Indicators

The neon record indicator firing level adjustment is only required if a neon bulb is replaced. The two neon indicators are adjusted for correct firing level by means of two trimmer capacitors, one for each indicator.

To adjust indicators proceed as follows:

1. Turn recorder on an depress "Record" button.

2. Connect a short jumper lead across the bias oscillator coil, L1 (short out the coil to disable the oscillator.)

3. Connect an audio oscillator, set at 1000 cycles, into the microphone input jack. Output of audio oscillator should be approximately .01 volt. (A1 volt output level may be used with a 100 to 1 reduction pad of resistors inserted between the audio oscillator and the microphone jack).

4. Connect probe of low capacity type AC VTVM to test point "B" (junction of two 330KΩ resistors, R32 and R34, mounted on a terminal strip near the volume control).

5. Adjust volume control to obtain a reading of 36 volts on VTVM and leave control set and VTVM connected.

6. Disconnect shorting jumper from across bias oscillator coil.

7. Adjust "Normal" indicator trimmer M9A fully clockwise and then turn slowly counterclockwise so that upon loosening the trimmer the "Normal" bulb barely lights. This adjustment must be made loosening the trimmer.

8. Short out the bias oscillator coil.

9. Increase volume control to obtain a reading of 88 volts on the VTVM.

10. Remove short from bias oscillator coil.

11. Adjust "Overload" indicator trimmer M9B as described in step "7" for just barely lighting the "Overload" indicator bulb.

IMPORTANT: Do not readjust the recording bias oscillator after setting the indicator light adjustments.

TROUBLES

Push Buttons Fail To Latch Into Position-

1. Lock plate spring (28) loose or broken, resulting in the lock plate not being held against the hinge bracket (27).

Fails To Erase-

1. Spring (38) loose or broken, resulting in the erase head (44) not being pulled forward to engage the tape.

2. Erase head not aligned properly. See "Erase Head Adjustment".

Speed Variation Or "Wow-

1. Check the capstan (20), pinch roller (56), idler wheel (131), motor pulley (142), and flywheel (112) for oil or foreign material on these driving surfaces. Clean these parts with a good cleaning fluid.

2. Check motor pulley (142) to see if it is secured to motor shaft.

3. Check idler tension springs (133); see if they are holding idler wheel (131) in firm contact with motor pulley (142) and flywheel (112).

4. Idler slide plate (127) binding on slide bushing (126), preventing idler wheel (131) from making positive contact with the motor pulley and flywheel.

No Fast Forward Or Reverse-

1. Idler lever tension spring (64) may be loose or broken; if so, idler lever (69) will not be actuated.

2. Check idler drive belt (71) to see if it is properly connected.

No Drive On Record Or Playback-

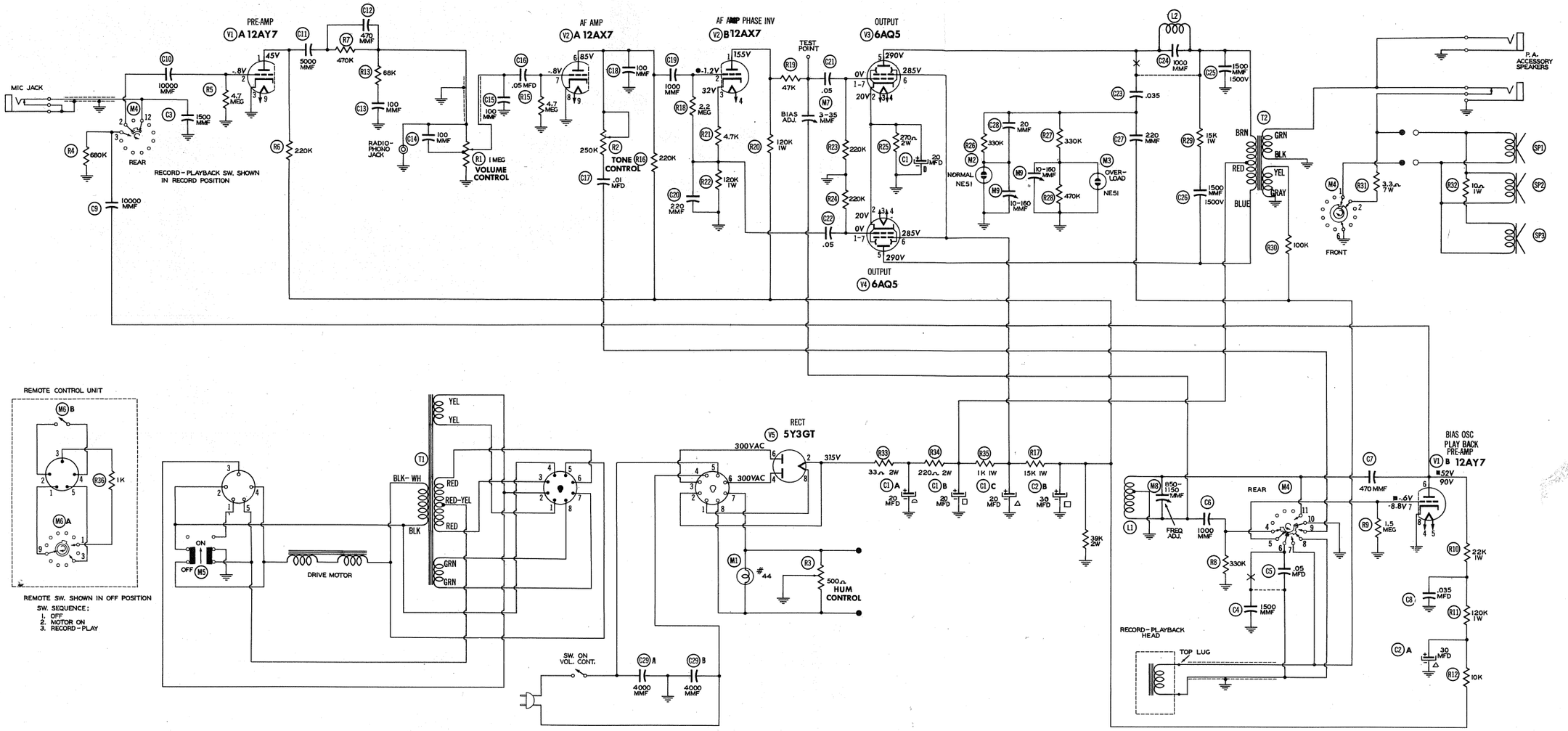
1. Idler tension springs (133) loose or broken, thereby not holding idler wheel (131) in engagement with motor pulley (142) and flywheel (112).

2. Idler slide plate (127) binding on slide bushing (126), thus preventing idler wheel (131) from moving forward.

Tape Fails To Wind On Take-Up Reel During Record Or Playback-

1. Reel drive spring (20) loose or broken. See "Adjustment For Slow Take-Up Reel".

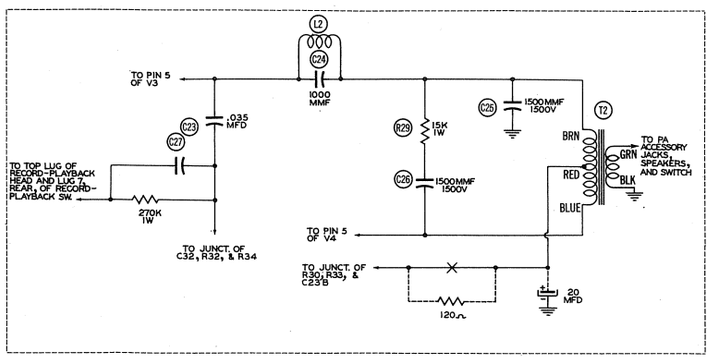
2. Brake drum shaft (113) binding. Clean foreign matter from bearing surface.



RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	12AY7	† 236KΩ	4.7Meg	0Ω	125Ω	125Ω	† 168KΩ	■1.5Meg 300KΩ	0Ω	125Ω
V 2	12AX7	† 136KΩ	2.3Meg	124KΩ	125Ω	125Ω	† 236KΩ	4.7Meg	0Ω	125Ω
V 3	6AQ5	220KΩ	270Ω	125Ω	125Ω	† 500Ω	† 1.2KΩ	220KΩ		
V 4	6AQ5	220KΩ	270Ω	125Ω	125Ω	† 500Ω	† 1.2KΩ	220KΩ		
V 5	5Y3GT	NC	40KΩ	TP	110Ω	TP	110Ω	TP	40KΩ	

ALL MEASUREMENTS TAKEN IN RECORD POSITION UNLESS DESIGNATED OTHERWISE.
† MEASURED FROM PIN 2 OF V5.
■ MEASURED IN PLAY POSITION.
◐ MEASURED FROM PIN 3 OF V2.
TP-TIE POINT
NC-NO CONNECTION



OUTPUT CONNECTIONS USED IN EARLY PRODUCTION

313-9

Tape Overruns Or Spills When Stop Button Is Depressed During Fast Forward Or Rewind-

1. Brake shoes out of adjustment. See "Brake Shoe Adjustment".

2. Brake Pads worn out. Replace pads.

Fails To Record-

1. Tape pressure pad not adjusted properly, resulting the tape not being held against the recording head. See "Pressure Pad Adjustment".

2. Record head (42) loose on its mounting. Adjust head and tighten into position as described under "Record-Play Head Adjustment".

3. Check the recording tape to see if the dull coated side faces inward on the reel. If the dull side faces outward, a recording cannot be made. If this condition exists, wind the tape onto an empty reel.

CLEANING

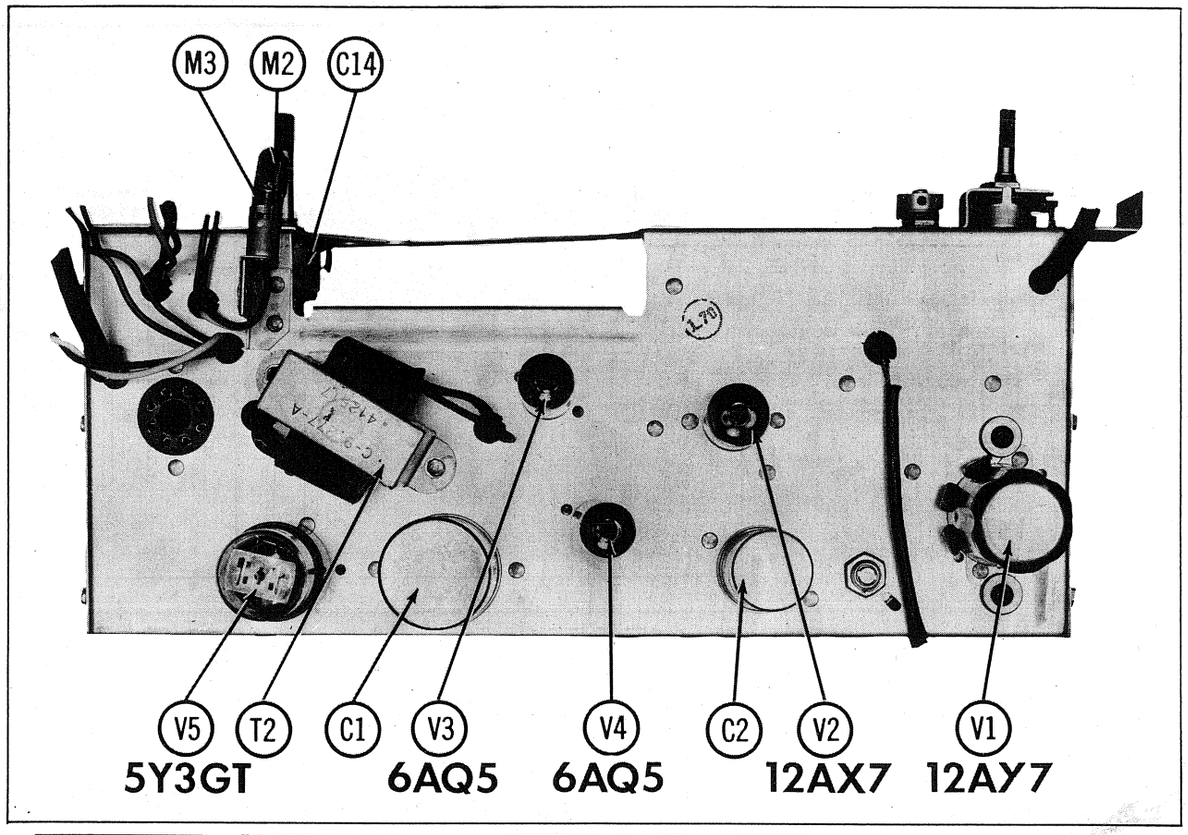
The record head, capstan and pressure roller are subject to an accumulation of tape coating residue, which is worn off the tape as it passes these parts. Use a soft cloth and alcohol to clean the head surfaces, capstan and pressure roller.

CAUTION: Do not use a brush when cleaning the recording head as this could possibly mar the metal pole piece.

LUBRICATION

All rotating parts are provided with generous size oilite bearings, which are factory lubricated and require no further attention.

An occasional cleaning out of foreign matter under the plastic push button cover is desirable, and a small drop of oil on the sliding lever members is advisable.



PARTS LIST AND DESCRIPTIONS

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	REPLACEMENT DATA		NOTES
		RCA Victor PART No.	STANDARD REPLACEMENT	
V1	Pre Amplifier	12AY7	12AY7	
V2	Bias Oscillator -- Pre-Amp. AF Amplifier Phase Inverter	12AX7	12AX7	
V3	Audio Output	6AQ5	6AQ5	
V4	Audio Output	6AQ5	6AQ5	
V5	Rectifier	5Y3GT	5Y3GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	RATING VOLT.	RCA Victor PART No.	REPLACEMENT DATA AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1A	▰20	450	94451	AFH9-67	D052	FP376.5 TC26	TM-4019	Q-340	TVL-4763
B	■20	450							
C	▲20	450							
D	▲20	25							
C2A	▲30	250	98787	AFH3-89	C067	FP331	TM-3200	T-340	TVL-3513
B	■30	250							
C	30	25	(Note 1)						

Note 1. C2C Is Not Used.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	RATING VOLT.	RCA Victor PART No.	REPLACEMENT DATA AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C3	1500		75610	SII500	D6-152	TP54	GP2L-152	UC-5215	5GA-T15	
C4	1500		75610	SII500	D6-152	TP54	GP2L-152	UC-5215	5GA-T15	
C5	05	400	73558	BPD-05	DF-508	CUB4S5		PT415	4TM-S5	
C6	1000		54677	SII000	D6-102	TP52	GP2L-102	UC-521	5HK-D1	
C7	470		94223	SI470	D6-471	TP46	GP2K-471	UC-5347	5GA-T47	
C8	035	600	73596							
C9	10000		206537	SII0000	D6-103	TP67	GP3-333-103	DC-511	5HK-S1	
C10	10000		206537	SII0000	D6-103	TP67	GP3-333-103	DC-511	5HK-S1	
C11	5000		98068	BPD-005	DD-503	K090	811-005	DC-525	5HK-D5	
C12	470		94223	SI470	D6-471	TP46	GP2K-471	UC-5347	5GA-T47	
C13	1000		54677	SII000	D6-102	TP52	GP2L-102	UC-521	5HK-D1	
C14	100		75437	SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C15	100		75437	SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C16	05	200	73558	BPD-05	DF-503	CUB2S5	GP3-333-103	PT411	2TM-S5	
C17	01	400	73561	BPD-01	D6-103	CUB4S1	GP3-333-103	PT411	4TM-S1	
C18	100		75437	SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C19	1500		75610	SII500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C20	220		77460	SI220	D6-221	TP39	GP2K-221	UC-5322	5GA-T22	
C21	05	600	73553	BPD-05	DF-503	CUB6S5		PT615	6TM-S5	
C22	05	600	73553	BPD-05	DF-503	CUB6S5		PT615	6TM-S5	
C23	035	600	73598							
C24	1000	500	39652	1464-001		1R5D1	811-102	MCB255	MS-21	
C25	1500	1500	207034	HVD-15-1500	DD30-152	V2D15	1R5KV-152	DC30215		
C26	1500	1500	207034	HVD-15-1500	DD30-152	V2D15	1R5KV-152	DC30215		
C27	220		77460	SI220	D6-221	TP39	GP2K-221	UC-5322	5GA-T22	
C28	20		98233	NP0-SI20	TCZ-20	TZ13	NP0K-200	ZT-542	5TCC-Q2	
C29A	4000		74009	BPD-2X004	D6-402	DK078	822-004	DCD-524	5HK-2D4	
B	4000									

CONTROLS

ITEM No.	RATING RESISTANCE	RATING WATTS	RCA Victor PART No.	REPLACEMENT DATA CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
R1A	1 Meg	1/2	98791	ABT-74	A47F5-1Meg	Q19-137X	UT-443	Volume Tapped@500KΩ
B	Shaft		Not Req.	AK-3	FS-3	Not Req.	Not Req.	Attach To R1A
C	Switch		Not Req.	KB-1	SWE-12	76-1	US-26	Attach To R1A
R2A	250KΩ	1/2	98792	B-51	A47-250K-Z	Q13-130	U-44	Tone
B	Shaft		Not Req.	Not Req.	Not Req.	Not Req.	Not Req.	Attach To R2A
R3A	500Ω	1/2	207036	AB-4	A47-500-S	Q11-103	U-2	Hum
B	Shaft		Not Req.	AK-1	FKS-1/4	RQ	Not Req.	Attach To R3A

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

ITEM No.	RATING OHMS	RATING WATT	REPLACEMENT DATA RCA Victor PART No.	REPLACEMENT DATA IRC PART No.	NOTES
R4	680KΩ	1/2	30562	BTS-680K	
R5	4.7Meg	1/2	502547	BTS-4.7Meg	
R6	220KΩ	1/2	502422	BTS-220K	
R7	39KΩ	2	522339	BTB-39K	
R8	330KΩ	1/2	502433	BTS-330K	
R9	1.5Meg	1/2	502515	BTS-1.5Meg	
R10	22KΩ	1	502322	BTA-22K	
R11	120KΩ	1	512412	BTA-120K	
R12	10KΩ	1/2	502310	BTS-10K	
R13	68KΩ	1/2	502368	BTS-68K	
R14	470KΩ	1/2	502447	BTS-470K	
R15	4.7Meg	1/2	502547	BTS-4.7Meg	
R16	220KΩ	1/2	502422	BTS-220K	
R17	15KΩ	1	512315	BTA-15K	
R18	2.2Meg	1/2	502522	BTS-2.2Meg	
R19	47KΩ	1/2	502347	BTS-47K	
R20	120KΩ	1	512412	BTA-120K	

ITEM No.	RATING OHMS	RATING WATT	REPLACEMENT DATA RCA Victor PART No.	REPLACEMENT DATA IRC PART No.	NOTES
R21	4700Ω	1/2	502247	BTS-4700	
R22	120KΩ	1	512412	BTA-120K	
R23	220KΩ	1/2	502422	BTS-220K	
R24	220KΩ	1/2	502422	BTS-220K	
R25	270Ω	2	39505	BTB-270	
R26	330KΩ	1/2	502433	BTS-330K	
R27	330KΩ	1/2	502433	BTS-330K	
R28	470KΩ	1/2	502447	BTS-470K	
R29	15KΩ	1	512315	BTA-15K	
R30	100KΩ	1/2	502410	BTS-100K	
R31	3.3Ω	7	207035	PW7-3	
R32	10Ω	1	512010	BTA-10	
R33	33Ω	2	522033		
R34	220Ω	2	522122	BTB-220	
R35	1000Ω	1	512210	BTA-1000	
R36	1000Ω	1/2	502210	BTS-1000	

TRANSFORMER (POWER)

ITEM No.	RATING PRI.	RATING SEC. 1	RATING SEC. 2	RATING SEC. 3	REPLACEMENT DATA RCA Victor PART No.	Halldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
T1	117VAC @1.05A	580VCT @077A	5V @2A	6.3V @1.76A	206993	P9312			22R02	R-12A

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE PRI.	IMPEDANCE SEC.	REPLACEMENT DATA RCA Victor PART No.	Halldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
T2	5.4KΩ	8Ω	208067 206994①						①Used In Early Versions

COILS (RF-IF)

ITEM No.	USE	DC RES. PRI.	DC RES. SEC.	REPLACEMENT DATA RCA Victor PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	NOTES
L1	Bias Qscillator	53Ω		206992				Tapped@15Ω
L2	Peaking Coil	50Ω		100490				7.4Millihenries

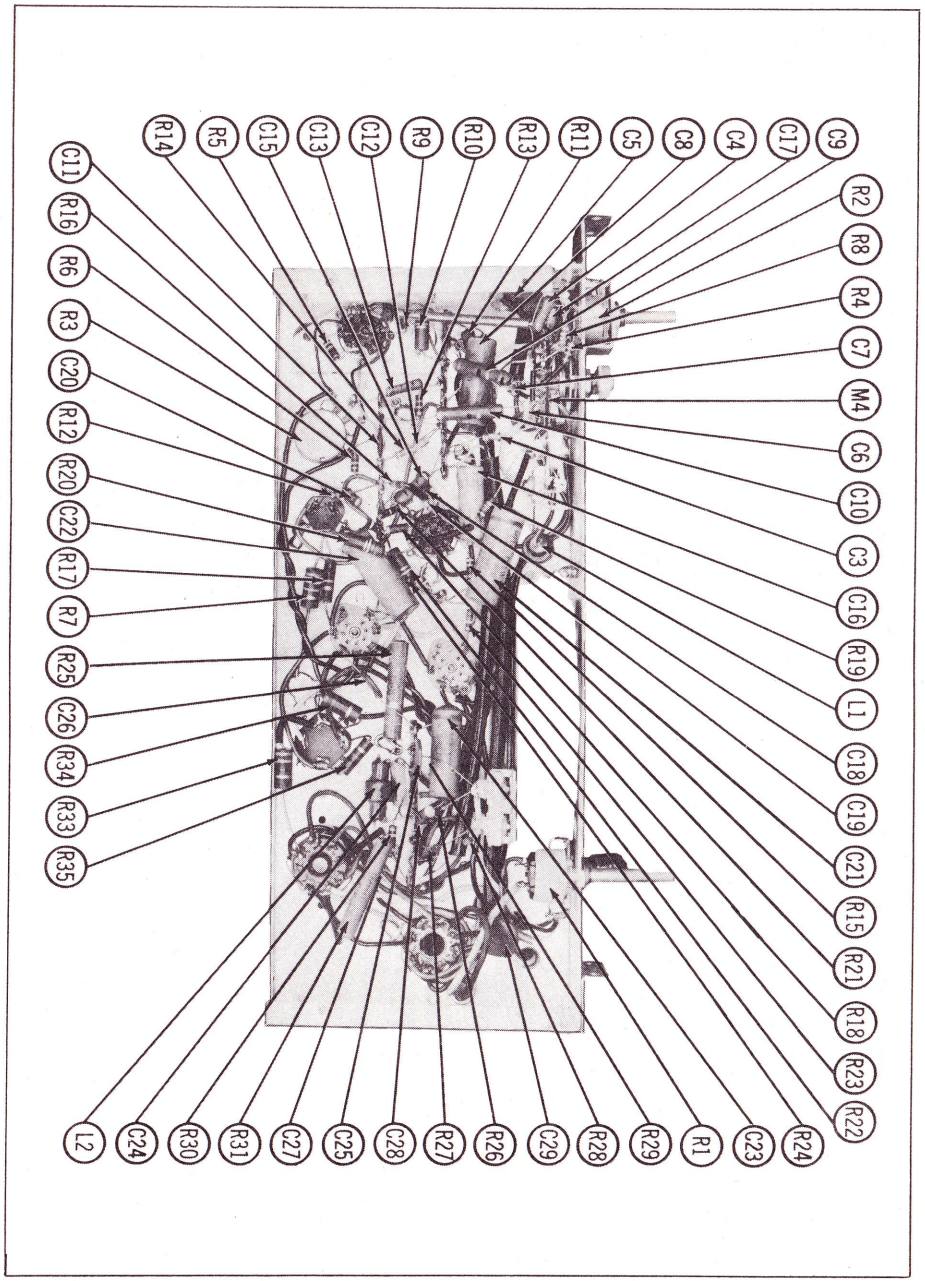
SPEAKER

ITEM No.	RATINGS SIZE	RATINGS FIELD	RATINGS V. C. IMP.	REPLACEMENT DATA RCA Victor PART No.	QUAM PART No.	RCA TYPE No.	NOTES
SP1	5 1/4"	PM	8Ω	206347	52A1Z8		
SP2	5 1/4"	PM	8Ω	206347	52A1Z8		
SP3	4"	PM	8Ω	206348	4A07Z8		

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M1	Pilot Light	11891	#44
M2	Neon Indicator	91749	#NE51
M3	Neon Indicator	91749	#NE51
M4	Switch	98790	Play-Record (Rotary-Wafer Type)
M5	Switch	207037	On-Off (DPDT-Slide Type)
M6A	Switch	206692	Remote Control (Rotary-Wafer Type)
B	Switch		On-Off (SPST)
M7	Trimmer Capacitor	207033	Bias Adjustment (3-35MMF)
M8	Trimmer Capacitor	207033	Oscillator Coil Trimmer (850-1150MMF)
M9	Trimmer Capacitor	71807	Dual (10-160MMF each) Normal & Overload Record Level Adjustment
	Knob	206888	Speed Shift
	Knob	206884	Control (2 Used)
	Handle	206892	Includes Posts

CHASSIS—BOTTOM VIEW



MECHANICAL PARTS LIST

Ref. No.	Part No.	Description
1	206888	Speed Shift Knob Gray
2	203769	Washer Control Knob Felt
3		#6-32 x 3/16" B. H. Screw
4		#6 Internal Lockwasher
5	206887	Take-up Reel Shaft & Holder, With Pulley, Gray
6	205866	Washer
7	206884	Control Knob Gray
8	206887	Feed Reel Shaft & Holder, Gray
9	206885	Record Lock Button
10		#6-32 x 1/2 O. H. Phil. Hd. Screw
11		#6-32 x 1" O. H. Phil. Hd. Screw
12	206882	Rear Escutcheon, Gray
13	206883	Front Escutcheon, Gray
14		#6-32 x 7/16 R. H. Screw
15		#6 Internal Lockwasher
16	98802	Button Retainer Bracket
17	76220	"E" Ring
18		Keps 6-32 x 3/8" Hex. Nut & Ext. Lockwasher
19	206886	Base Plate Assembly, Gray Hammertex
20	204213	Flywheel, Capstan
21	206698	Take-Up Reel Drive Belt, Spring
22		#6-32 x 1/2" B. H.
23		#6 Lockwasher
24	203703	Button Lever Assembly
25	206894	Push Button Gray
26	98818	Button Return Spring
27	204626	Button Hinge Bracket
28	98819	Button Lock Plate Spring
29	204627	Button Locking Plate
30		Washer
31		Internal Lockwasher
32		#6-32 x 1/4", Phil. Hd. Screw
33	206719	#6-32 x 3/16", Bristol Hd. Set Screw
34	206700	Tape Guide Left
35		Hex Nut
36	203696	Left Tape Guide Spacer
37	203695	Erase Head Plate
38	98816	Erase Head Tension Spring
39	98817	Record Actuating Lever
40		Felt Pad
41		Spring Adj. Screw
42	98808	Record Head
43		#2-56 Nut
44	98845	Erase Head
45		Flat Washer
46	98815	Record Slide Plate
47	203697	Playback Slide Lever
48	98812	Pressure Roller Spring
49	98814	Pressure Pad Spring Assembly
50	74788	Push-On Nut
51	98813	Playback Slide Plate Assembly
52	206719	#6-32 x 3/6 Bristol Hd. Set Screw
53	206701	Tape Guide Right
54	76744	Hair Pin Clip
55	98809	Linen Washer
56	206695	Pressure Roller
57	98809	Linen Washer
58	206694	Pressure Roller Plate
59	206696	Record Interlock Spring
60	98825	Switch Arm Link
61	203699	Switch Lever
62	98821	Brake Slide Plate Assembly
63	74788	Push-On Nut
64	98822	Idler Tension Spring
65	98823	High Speed Shift Plate
66	98820	Brake Return Spring
67	206690	Brake & Slide Plate Assy.
68		Brake Pad
69	206691	Idler Lever Assembly

Ref. No.	Part No.	Description
70	98853	8-32 Shoulder Screw
71	98830	Idler Drive Belt Rubber
72	98829	Idler Drive Pulley
73		Washer
74	205867	Washer
75		"C" Washer
76	206720	Counter
77	206874	Counter Drive Belt
78		Counter Bracket
79		Counter Mounting Screws
80	7903	Input Jack
81	206723	Brake Drum Shaft
82		Drive Mounting Plate
83		#8 Lockwasher
84		#8-32 x 1/4"B. H. Screw
85	205866	Washer
86	206721	Brake Drum Assembly, With Pulley
87	26619	Brake Drum Set Screw
88	206703	Drive Mounting Plate Assy.
89		#8 External Lockwasher
90		#8-32 x 1/4"R. H. Screw
91	98836	Drive Motor
92	98837	"E" Ring
93		Flat Washer
94	203769	Felt Washer
95	98838	Fan
96	203769	Felt Washer
97	98839	Fan Fastener
98		Screw
99	98826	Sub Idler Plate Assy.
100		#8-32 x 5/16"B. H. Screw
101	98809	Linen Washer
102	98827	Sub Idler Wheel
103	205867	Washer
104	205867	Washer
105	76744	Hair Pin Clip
106	206727	Speed Control Shaft
107	98840	Grommet
108	206705	Motor Plate
109		Hex Nut
110	7903	Input Jack
111	98809	Linen Washer
112	204213	Flywheel
113	206689	Brake Drum Shaft
114		Allen Set Screw
115	205866	Laminated Washer
116	206688	Brake Drum Assembly
117	26619	Brake Drum Set Screw
118		Angle Mounting Bracket
119		#8 Ext. Lockwasher
120		#8-32 x 3/8" B. H.
121		#8 Internal Lockwasher
122		#8-32 x 3/8"R. H. Screw
123	206709	Speed Shift Lever
124		Screw
125	98847	"C" Washer
126	206135	Idler Slide Plate Bushing
127	206704	Idler Slide Plate
128	76744	Hair Pin Clip
129	98809	Linen Washer
130		Washer
131	98834	Idler Wheel
132	98809	Linen Washer
133	98842	Idler Tension Springs
134		Screw
135		Speed Control Shaft Detent
136	26619	Motor Pulley Set Screw
137	98843	Idler Lift Compression Spring
138		#8-32 x 1/4"R. H. Screw
139		#8 Internal Lockwasher
140		#8 Flat Washer
141	203702	Idler Throw-out Lever
142	206051	Motor Pulley